

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant(s):        ARAI, et al  
Serial No.:            (not yet assigned)  
Filed:                 December 15, 2003  
For:                    DIGITAL INFORMATION RECORDING/REPRODUCING  
                             APPARATUS

**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 CFR 1.97 & 1.98**

Mail Stop DD  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

December 15, 2003

Sir:

In the matter of the above-identified application, applicant(s) is/are submitting herewith a copy of the documents listed in the attached form equivalent to Form PTO-1449 for the Examiner's consideration.

This information disclosure statement is being submitted with the accompanying continuation application papers.

To the extent that, the documents listed on the attached form equivalent to Form PTO-1449, are not in the English language, the requirement of 37 CFR 1.98(a)(3) for a concise explanation of the relevance is satisfied by an English language translation.

It is respectfully requested that this information disclosure statement be considered by the Examiner.

Please charge any shortage in the fees due in connection with the filing of this paper, including extension of time fees, to Deposit Account No. 01-2135 (500.30304C15) and please credit any excess fees to such deposit account.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'Melvin Kraus', is written over a horizontal line.

Melvin Kraus  
Registration No. 22,466  
ANTONELLI, TERRY, STOUT & KRAUS, LLP

MK/cee  
Attachments  
(703) 312-6600

Form PTO-1449  
Equivalent

U.S. Department of Commerce  
Patent and Trademark Office

Atty. Docket No. 500.30304C15  
Serial No. (not yet assigned)  
Applicant: H. ARAI, et al  
Filing Date: on even date herewith  
Group:

U.S. Patent Documents

Examiner Initials	Document No.	Date	Name	Class Subclass	Filing Date If Approp.
	5,267,094	11/93	Aoki		

Foreign Patent Documents

Document No.	Date	Country	Class Subclass	Translation Yes No
64-73560	3/89	Japan		X
2-108279	4/90	Japan		X

Other Documents (including Author, Title, Date, Pertinent Pages, etc.)

Examiner

Date Considered

\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609;  
Draw line through citation if not in conformance and not considered. Include copy of this form with next  
communication to applicant.

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December 15, 2003

Sir:

In the matter of the above-identified application, this information disclosure statement is being submitted with the following citation as specified in 37 CFR 1.97(d).

"A copy of any patent, publication or other information listed in an information disclosure statement is not required to be provided if it was previously cited by or submitted to the Office in a prior application, provided that the prior application is properly identified in the statement and relied upon for an earlier filing date under 35 U.S.C. 120."

Applicants are submitting herewith a copy of Form PTO-1449 which list documents cited in parent applications Serial No. 10/603,612, filed June 26, 2003, Serial No. 10/404,452, filed April 2, 2003, Serial No. 10/277,830, filed October 23, 2002, now U.S. Patent No. 6,590,726, Serial No. 09/809,047, filed March 16, 2001, now U.S. Patent No. 6,498,691, Serial No. 09/654,962, filed September 5, 2000, now U.S. Patent No. 6,324,025 issued November 27, 2001, Serial No. 09/567,005, filed May 9, 2000, Serial No. 09/326,595, filed June 7, 1999, Serial No. 09/188,303, filed November 10, 1998, Serial No. 08/917,176, filed August 27, 1997, now U.S. Patent No. 5,862,004, Serial No. 08/620,880, filed March 22, 1996, now U.S. Patent


No. 5,673,154, Serial No. 08/620,879, filed March 22, 1996, now U.S. Patent No. 5,699,203, Serial No. 08/457,597, filed June 1, 1995, now U.S. Patent No. 5,530,598, Serial No. 08/457,486, filed June 1, 1995, now U.S. Patent No. 5,517,368, Serial No. 08/238,528, filed May 5, 1994, now U.S. Patent No. 5,671,095, and Serial No. 07/727,059, filed July 8, 1991, now U.S. Patent No. 5,337,199.

It is respectfully requested that this information disclosure statement be considered by the Examiner.

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Respectfully submitted,

ANTONELLI, TERRY, STOUT & KRAUS, LLP

  
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Filing Date: on even date  
Group: Unassigned

U.S. Patent Documents

Examiner Initials	Document No.	Date	Nam	Class Subclass	Filing Date If Approp.
	4,378,593	03/83	Yamamoto		
	4,542,417	9/85	Ohta		
	4,542,419	9/85	Morio et al		
	4,544,958	10/85	Odaka		
	4,849,812	7/89	Borgers et al.		
	4,862,292	8/89	Enari et al.		
	4,972,417	11/90	Sako et al		
	4,975,771	12/90	Kassatly		
	5,010,391	4/91	Shimokoriyama et al		
	5,023,710	6/91	Kondo et al.		
	5,032,927	7/91	Watanabe et al.		
	5,070,503	12/91	Shikakura		
	5,065,259	11/91	Kubota et al		
	5,128,758	7/92	Azadegan et al.		
	5,132,781	7/92	Shimokoriyama et al		
	5,136,641	8/92	Gysel		
	5,257,107	10/93	Hwang et al		
	5,335,116	8/94	Onishi et al		
	5,377,050	12/94	Yun		
	5,440,432	8/95	Aoki		
	5,491,481	2/96	Akagiri		
	5,572,331	11/96	Yu		
	5,585,933	12/96	Ichige et al		
	5,590,108	12/96	Mitsuno et al		
	5,742,444	4/98	Ozue		
	5,761,642	6/98	Suzuki et al.		
	5,808,750	9/98	Yang et al		
	5,818,652	10/98	Ozaki et al		
	5,844,736	12/98	Fukuda et al		
	5,872,885	2/99	Park et al		
	5,875,279	2/99	Owashii et al		
	5,878,188	3/99	Amada et al		
	5,889,921	3/99	Sugiyama et al		
	6,049,517	4/00	Tsutsui		

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Foreign Patent Documents

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				Yes	No
61-152180	7/86	Japan			
63-175266	7/88	Japan			
64-73560	3/89	Japan			
64-89878	4/89	Japan			
2-14619	1/90	Japan			
1-114176	5/89	Japan			
1-125186	5/89	Japan			
1-276470	11/89	Japan			
90655/90	5/99	Japan			
105643/97	6/99	Japan			
163728/97	6/99	Japan			

Other Documents (including Author, Title, Date, Pertinent Pages, etc.)

Kubota, S. et al., "A Compact Spectrum and Interference-resistant Digital Video Transmission System",  
IEEE Global Telecommunications Conference & Exhibition, Vol. 3, pp. 1729-1734, 1989.

Examiner

Date Considered

\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.